Assignment 01 B

```c
#include <stdio.h>

int main()
{
    int temperature[3][7];
    float average = 0;
    int total = 0;

    printf("\nEnter temperature data (in °C) for 3 cities\n");

    for (int c = 0; c < 3; c++)
    {
        printf("\nFor city %d:\n", c + 1);
        for (int d = 0; d < 7; d++)
        {
            printf("Enter temperature for day %d: ", d + 1);
            scanf("%d", &temperature[c][d]);
        }
    }

    printf("\n\t\t\tTemperature Tracker (°C):\n\n");

    // Properly aligned column headers
    printf("%-5s %-10s", "SNO.", "City");
    for (int d = 1; d <= 7; d++)
        printf("%6s", d == 7 ? "D7" : (d == 6 ? "D6" : (d == 5 ? "D5" : (d == 4 ?
"D4" : (d == 3 ? "D3" : (d == 2 ? "D2" : "D1"))))));
    printf("%10s\n", "Average");

    printf("-------------------------------------------------------------\n");

    for (int i = 0; i < 3; i++)
```

```c
    {
        total = 0;
        printf("%-5d %-10s", i + 1, ("City"));

        for (int j = 0; j < 7; j++)
        {
            printf("%6d", temperature[i][j]);
            total += temperature[i][j];
        }

        average = total / 7.0;
        printf("%10.2f\n", average);
    }

    printf("-------------------------------------------------------------\n");

    return 0;
}
```

```
Enter temperature data (in °C) for 3 cities

For city 1:
Enter temperature for day 1: 23
Enter temperature for day 2: 43
Enter temperature for day 3: 23
Enter temperature for day 4: 35
Enter temperature for day 5: 43
Enter temperature for day 6: 45
Enter temperature for day 7: 34

For city 2:
Enter temperature for day 1: 54
Enter temperature for day 2: 34
Enter temperature for day 3: 37
Enter temperature for day 4: 47
Enter temperature for day 5: 118
Enter temperature for day 6: 53
Enter temperature for day 7: 46

For city 3:
Enter temperature for day 1: 37
Enter temperature for day 2: 48
Enter temperature for day 3: 53
Enter temperature for day 4: 42
Enter temperature for day 5: 52
Enter temperature for day 6: 34
Enter temperature for day 7: 45

                    Temperature Tracker (°C):

SNO.  City          D1    D2    D3    D4    D5    D6    D7   Average
-------------------------------------------------------------------
1     City          23    43    23    35    43    45    34   35.14
2     City          54    34    37    47   118    53    46   55.57
3     City          37    48    53    42    52    34    45   44.43
-------------------------------------------------------------------
```